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TOMLOV DM202

TOMLOV DM202 HDMI Digital Microscope

User Instruction Manual

INTRODUCTION

The TOMLOV DM202 HDMI Digital Microscope is a versatile tool designed for detailed observation and analysis. Featuring a 10.1-inch LCD screen, 16MP camera, and broad compatibility, it is ideal for electronics repair, coin observation, soldering, and educational purposes. This manual provides essential information for setting up, operating, and maintaining your device.

PACKAGE CONTENTS

- TOMLOV DM202 10.1" HDMI Digital Microscope x 1
- 10" Enhanced Stand x 1
- Aluminum Base x 1
- HDMI Cable x 1
- USB Cable x 2
- 32GB Micro-SD Card (pre-installed) x 1
- Remote Control x 1
- Power Adapter x 1
- Cleaning Cloth x 1



Figure 1: Complete package contents of the TOMLOV DM202 Digital Microscope.

This image displays the TOMLOV DM202 digital microscope along with its included accessories, such as the 10.1-inch LCD screen, stand, base, cables, remote control, and SD card.

SETUP GUIDE

- 1. Assemble the Stand:** Attach the 10-inch enhanced stand to the aluminum base using the provided screws. Ensure it is securely fastened.



Figure 2: Attaching the microscope stand to the base.

This image illustrates the process of assembling the microscope stand by connecting the vertical pillar to the sturdy aluminum base.

2. **Mount the Microscope:** Secure the microscope unit onto the adjustable bracket on the stand. Use the larger scroll screws for easy and secure attachment.

HDMI/USB Output for Expansive Visuals

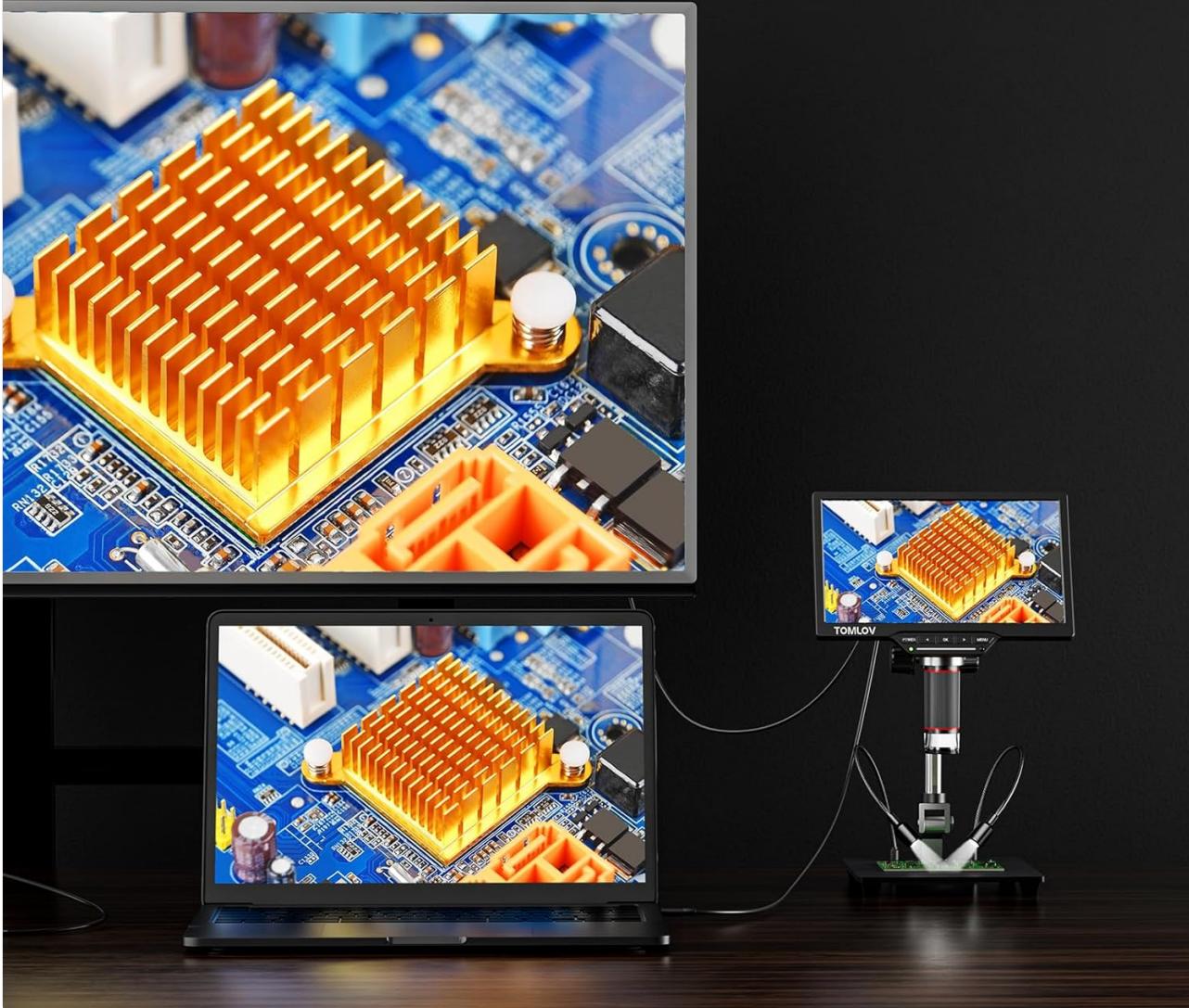


Figure 3: Mounting the microscope unit onto the stand's bracket.

The image shows the microscope unit being attached to the adjustable bracket on the stand, highlighting the larger, easy-to-grip scroll screws for secure mounting.

3. **Connect Power:** Plug the power adapter into the microscope unit and then into a power outlet. The device has a built-in rechargeable battery for portable use.



Figure 4: Power connection and built-in battery for portability.

This image shows the microscope connected to a power source, emphasizing its built-in rechargeable battery for convenient portable operation.

4. **Adjust LED Lights:** The base features adjustable LED lights. Use the touch control bar on the base to adjust brightness or turn the lights on/off.

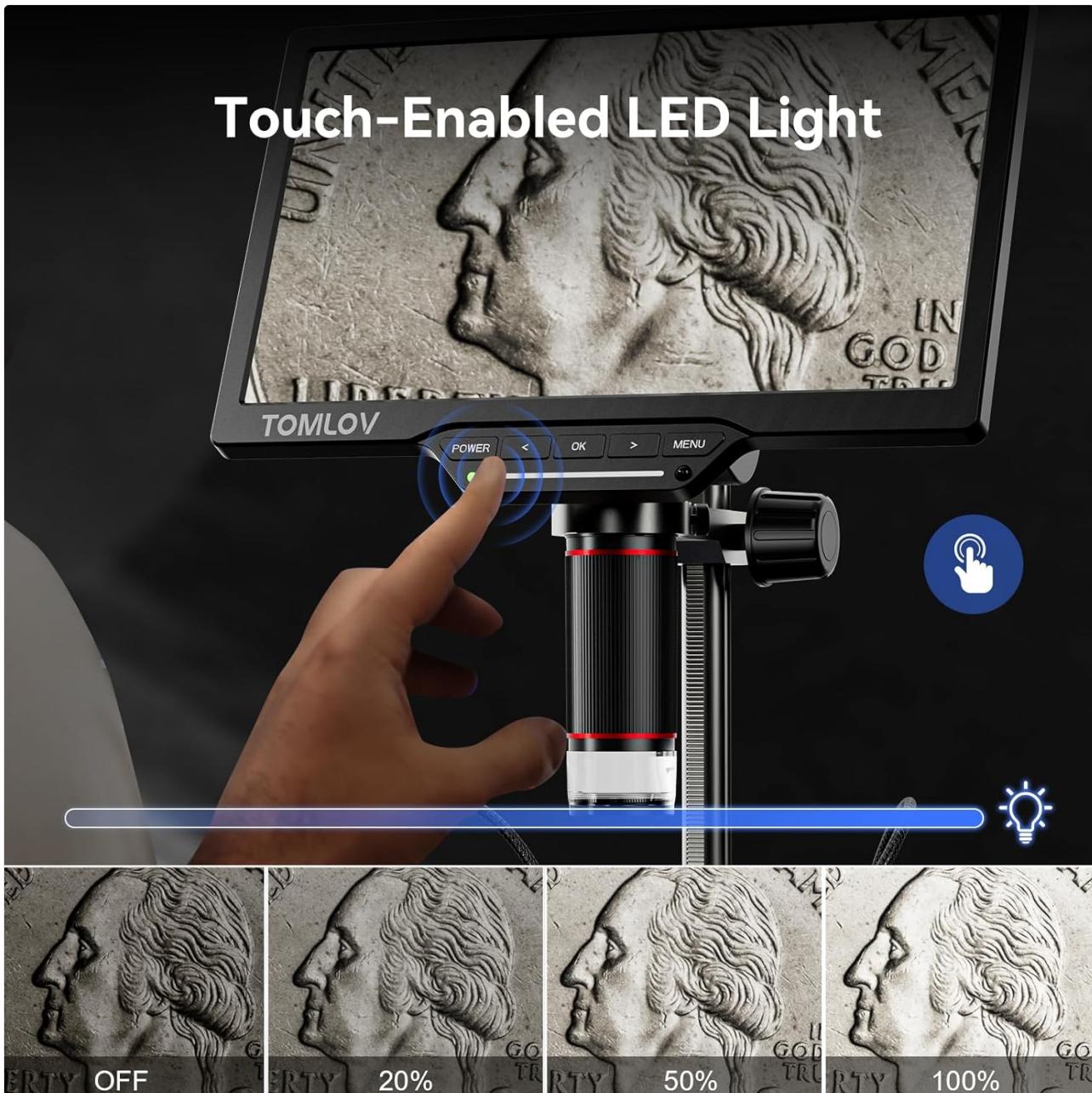


Figure 5: Touch control for adjusting LED light brightness.

The image demonstrates how to adjust the brightness of the microscope's LED lights using the intuitive touch control bar located on the base.

5. **Insert Micro-SD Card:** The 32GB Micro-SD card is pre-installed. Ensure it is properly seated for image and video storage.

10" Stand for Enhanced Viewing



Full View Available For



Silver Dollar
1.5 inches



Half Dollar
1.2 inches



Gold Dollar
1.04 inches

Figure 6: Location of the Micro-SD card slot.

This image highlights the Micro-SD card slot on the microscope unit, where the included 32GB card is inserted for storing captured images and videos.

OPERATING INSTRUCTIONS

Basic Operation

- Power On:** Press the "POWER" button on the microscope unit to turn on the 10.1-inch LCD screen.
- Adjust Height and Focus:** Place your specimen on the base. Adjust the height of the microscope unit on the stand using the adjustable bracket. Rotate the focus controller on the microscope lens until the image on the screen is clear.

Feast Your Eyes On Lps Screen

16_{MP} | 20%
Clearer

10.1" | 30%
Bigger Screen

IPS | 35%
Brighter

Figure 7: Adjusting the microscope's height and focus for clear viewing.

This image shows a user adjusting the height of the microscope on its stand and rotating the focus knob to achieve a clear, magnified view of a coin specimen.

3. **Zoom Control:** The microscope offers a 3X-1300X zoom range. Use the zoom controls on the unit or remote to adjust magnification.
4. **Remote Control:** Use the included remote control for convenient operation, including zoom, image capture, and menu navigation.

Convenient Remote Control



Figure 8: Operating the microscope using the remote control.

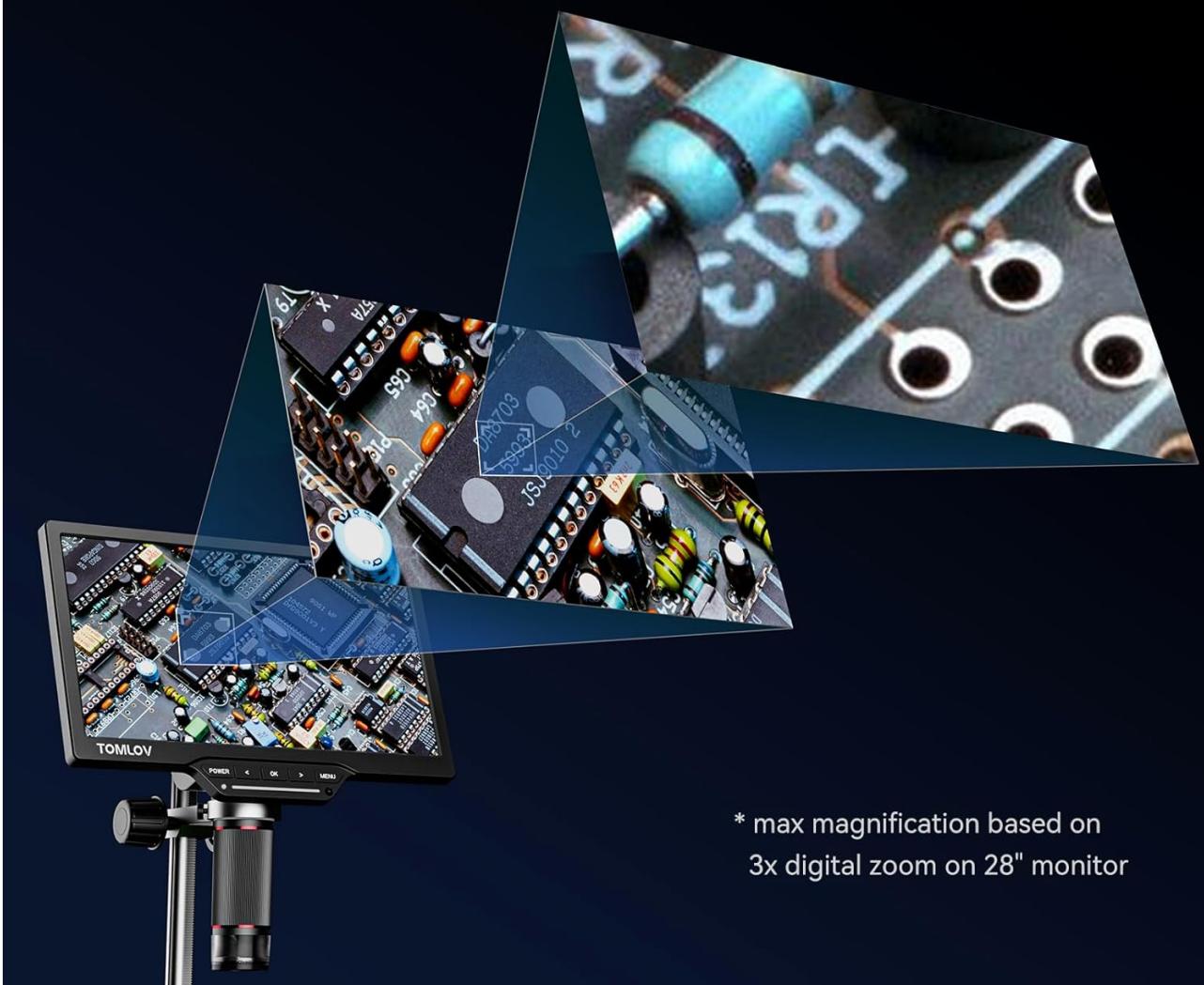
The image displays a hand using the remote control to operate the microscope, demonstrating its convenience for adjusting settings and capturing media from a distance.

Connecting to External Displays (HDMI/USB)

The TOMLOV DM202 supports output to HDMI monitors and Windows/Mac PCs.

- **HDMI Output:** Connect the microscope to any HDMI monitor or TV using the provided HDMI cable. The display will automatically switch to the external screen.

2X-1500X Zoom



* max magnification based on
3x digital zoom on 28" monitor

Figure 9: Connecting the microscope to an external HDMI display.

This image shows the microscope connected to a larger external monitor via an HDMI cable, allowing for expanded viewing of magnified images.

- **USB Output (PC):** Connect the microscope to a Windows PC (using the Camera app) or a Mac (using Photo Booth) via the USB cable. The device will function as a webcam.

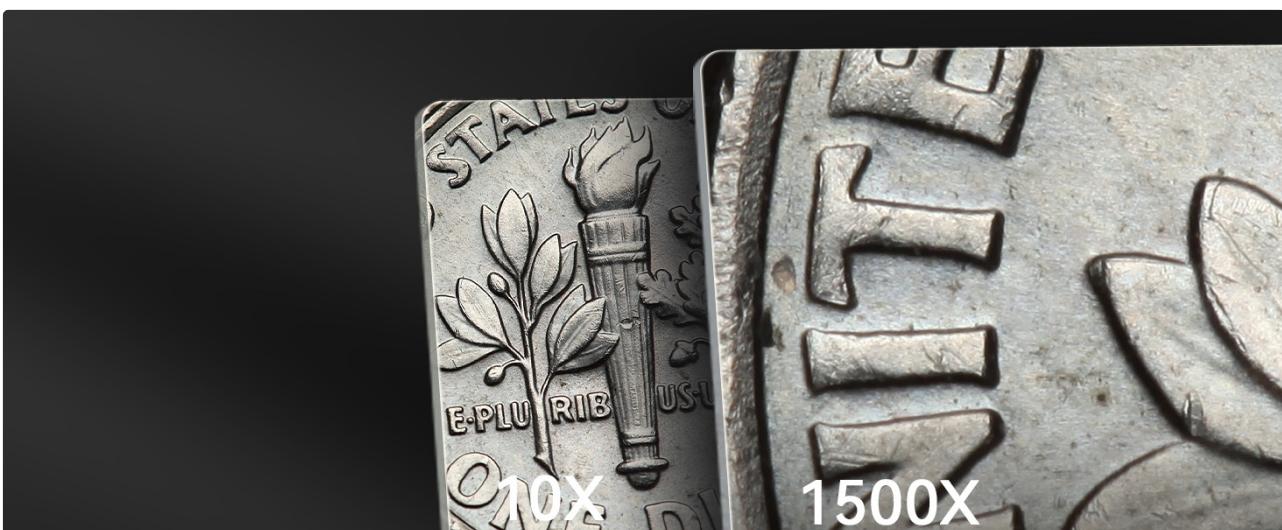


Figure 10: Connecting the microscope to a laptop via USB.

The image illustrates the microscope connected to a laptop via USB, enabling real-time viewing and capture on a computer screen.

Image and Video Capture

The microscope can capture up to 16MP photos and videos directly to the 32GB Micro-SD card.

- **Capture Button:** Press the "OK" button on the unit or remote to capture an image or start/stop video recording.
- **Access Files:** Connect the microscope to a PC via USB or remove the Micro-SD card and insert it into a card reader to access captured media.

Official Product Videos

Below are official product videos from the seller demonstrating various features and comparisons.

Crisp image from Tomlov DM202 HDMI Microscope When Soldering

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This video demonstrates the crisp image quality of the TOMLOV DM202 HDMI microscope, particularly useful for micro-soldering tasks. It shows the microscope's display and the detailed view of a circuit board during soldering.

Tomlov DM201 VS DM202 Digital Microscope

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This video provides a direct comparison between the TOMLOV DM201 and DM202 digital microscopes, highlighting the differences in screen size, working distance, and overall performance between the two models.

TOMLOV DM202 Digital Microscope, 16MP Coin Microscope

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This video showcases the TOMLOV DM202 digital microscope's capabilities, particularly its 16MP camera for detailed coin observation. It highlights the clarity and magnification for examining various coin features.

What's the difference between Tomlov DM202 and DM201 ?

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This video provides a concise overview of the key differences between the TOMLOV DM202 and DM201 models, focusing on upgraded features and improvements in the DM202.

Unboxing of 2020 Upgraded Digital Microscope Tomlov DM202

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This video shows the unboxing experience of the TOMLOV DM202 digital microscope, detailing all included components and initial impressions of the upgraded model.

2022 Tomlov Upgrade New Model: DM202 HDMI Digital Microscope

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This video highlights the new features and upgrades introduced in the 2022 model of the TOMLOV DM202 HDMI Digital Microscope, showcasing its

enhanced capabilities.

How does Tomlov 10.1" digital microscope work with HDMI USB?

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This video provides a practical demonstration of how the TOMLOV 10.1-inch digital microscope functions with both HDMI and USB connections, illustrating its versatility for different display setups.

MAINTENANCE

- Keep the lens clean using the provided cleaning cloth.
- Store the microscope in a dry, dust-free environment.
- Avoid exposing the device to extreme temperatures or direct sunlight.

TROUBLESHOOTING

- **No Power:** Ensure the power adapter is correctly connected and the battery is charged.
- **Blurry Image:** Adjust the focus knob and the height of the microscope unit. Ensure adequate lighting.
- **No Display on External Monitor:** Check HDMI/USB cable connections. Ensure the correct input source is selected on the external display.
- **SD Card Error:** Reinsert the Micro-SD card. If the issue persists, try formatting the card (this will erase all data) or use a different compatible Micro-SD card.

SPECIFICATIONS

Product Dimensions	12.99 x 12.6 x 3.94 inches
Item Weight	4.2 pounds
Model Number	DM202
Batteries	1 Lithium Ion battery (included)
Light Source Type	LED
Material	Aluminum, Metal
Magnification Maximum	1300x
Voltage	5 Volts

Compatible Devices

Television, Laptop (Windows/macOS), Personal Computer, HDMI Projector

WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official TOMLOV website or contact their customer service directly. Keep your purchase receipt for warranty claims.

Note: Specific warranty terms and conditions may vary.

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